Journal of Fluid Mechanics Volume 533 **25 June 2005**

P. Février, O. Simonin & K. D. Squires	Partitioning of particle velocities in gas–solid turbulent flows into a continuous field and a spatially uncorrelated randon distribution: theoretical formalism and numerical study	1
N. G. Hadjiconstantinou & H. A. Al-Mohssen	A linearized kinetic formulation including a second-order slip model for an impulsive start problem at arbitrary Knudsen numbers	47
P. C. Le Clercq & J. Bellan	Direct numerical simulation of gaseous mixing layers laden with multicomponent-liquid drops: liquid-specific effects	57
R. V. Craster, O. K. Matar & D. T. Papageorgiou	On compound liquid threads with large viscosity constrasts	95
P. Meunier & T. Leweke	Elliptic instability of a co-rotating vortex pair	125
L. Duchemin, J. R. Lister & U. Lange	Static shapes of levitated viscous drops	161
E. S. Benilov, J. D. Flanagan & C. P. Howlin	Evolution of packets of surface gravity waves over smooth topography	171
S. Y. Chen, B. Dhruva, S. Kurien, K. R. Sreenivasan & M. A. Taylor	Anomalous scaling of low-order structure functions of turbulent velocity	183
J. Billingham & A. C. King	Surface-tension-driven flow outside a slender wedge with an application to the inviscid coalescence of drops	193
S. J. Fiedor & J. M. Ottino	Mixing and segregation of granular matter: multi-lobe formation in time-periodic flows	223
U. S. Sauter & H. W. Buggisch	Stability of initially slow viscous jets driven by gravity	237
M. Princevac, H. J. S. Fernando & C. D. Whiteman	Turbulent entrainment into natural gravity-driven flows	259
P. Reichl, K. Hourigan & M. C. Thompson	Flow past a cylinder close to a free surface	269
S. J. Sherwin & H. M. Blackburn	Three-dimensional instabilities of steady and pulsatile axisymmetric stenotic flows	297
G. R. Hunt & N. B. Kaye	Lazy plumes	329
M. Guala, B. Lüthi, A. Liberzon A. Tsinober & W. Kinzelbach	On the evolution of material lines and vorticity in homogeneous turbulence	339
M. E. Stern & J. Simeonov	The secondary instability of salt fingers	361
M. Ollitrault, C. Gabillet & A. Colin de Verdière	Open ocean regimes of relative dispersion	381

BOOK REVIEWS

Internal Flow – Concepts and Applications, by E. M. Greitzer, C. S. Tan & M. B. Graf 408

Viscous Incompressible Flow for Low Reynolds Numbers, by M. Kohr & I. Pop 409

SHORT NOTICE 410

INDEX TO VOLUME 533 412

The Journal of Fluid Mechanics now accepts submissions via Manuscript Central
Go to http://www.jfm.damtp.cam.ac.uk/online_submission.html as an author

CAMBRIDGE UNIVERSITY PRESS

Cambridge Journals Online
journals.cambridge.org

0022-1120(200506)533;1-1